

DERWENT-ACC-NO: 2001-594992
DERWENT-WEEK: 200167
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TITLE: Three-dimensional object representation generating
method for computer
aided design, involves modifying object representation and
stored visibility
attributes based on new data elements and new visibility
attributes

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PRIORITY-DATA: 1997US-064906P (November 7, 1997) ,
1997US-0979221 (November 26,
1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
US <u>6249600</u> B1	June 19, 2001	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
US 6249600B1	Provisional	1997US-064906P
November 7, 1997		
US 6249600B1	N/A	1997US-0979221
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INT-CL (IPC): G06K009/00

ABSTRACTED-PUB-NO: US 6249600B
BASIC-ABSTRACT: NOVELTY - Target area on object is selected
based on visibility
attributes associated with data elements generated by
scanning object. Object
indication and stored visibility attributes are modified
based on new data
elements and new visibility attributes generated by
scanning target area.
Target area selection, scanning and object representation
and visibility

attribute modification are repeated until termination.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for three-dimensional representation generating system.

USE - For computer aided design, rapid prototyping, advanced structural analysis and process planning operation.

ADVANTAGE - Minimizes the number of scans required to create high quality representation of object at desired resolution. Ensures that entire object is included in the model and outside edges are not cutoff due to the resolution of scanner. Eliminates portions of representation not corresponding to actual image. Increases manufacturing speed by manufacturing multiple items simultaneously using copies of same three-dimensional representation.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of steps for creating three-dimensional representation.

CHOSEN-DRAWING: Dwg.1/13

TITLE-TERMS:

THREE DIMENSION OBJECT REPRESENT GENERATE METHOD COMPUTER
AID DESIGN MODIFIED
OBJECT REPRESENT STORAGE VISIBLE ATTRIBUTE BASED NEW DATA
ELEMENT NEW VISIBLE
ATTRIBUTE

DERWENT-CLASS: T01

EPI-CODES: T01-J10C4;

SECONDARY-ACC-NO:

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